Date:

Thursday, 20/11/2008 3:34:16 PM

User: Julie Dawson

## **Process Sheet**

Customer Job Number : CU-DAR001 Dart Helicopters Services

S.O. No. :

: 43600

**Estimate Number** 

: 11122

P.O. Number

This Issue

Prsht Rev.

Written By

: 20/11/2008

: NC : //

First Issue **Previous Run** 

: 43379

Type

: LARGE FAB ASSY

Project Number

**Drawing Revision** Material

**Drawing Name** 

Part Number

**Drawing Number** 

**Due Date** 

: 20/12/2008

: D3016041

: N/A

: A

: D3016 REV A

: SEAT FRAME ASSEMBLY

Qty:

1 Um: Each

Checked & Approved By

Comment

: Est.

01.09.19

New issue EC

**Additional Product** 

Job Number:



Seq. #:

**Machine Or Operation:** 

**Description:** 4130 RD Tube .750 x.049W

1.0

M4130NT0750W049

Comment: Qty.: 4.5150 f(s)/Unit Total: 4.5150 f(s)

4130 Tube .750 OD x.049W

Cut:- AISI 4130N tube, Ø3/4" x 0.049" wall

Batch: 111165

2.0 M4130NT1000W120 4130 RD Tube 1.00 x .120wall

Comment: Qty.:

1.5750 f(s)/Unit Total:

1.5750 f(s)

4130 Tube 1.0"D X 0.120"W

batch 0 109 534 M4130NT0500W049

4130 RD Tube .500 x.049W



3.0

Comment: Qty.: 4.5150 f(s)/Unit Total: 4.5150 f(s)

4130 Tube .500 OD x.049W

Cut- AISI 4130N tube, Ø1/2" x 0.049" wall

Batch: <u>n110665</u>]

D301617 4.0

Gusset



Comment: Qty.:

2.0000 Each(s)/Unit Total:

2.0000 Each(s)

Gusset

2

Pick:

Qty

Part Number

Description

Batch B39641

D3016-17

Gusset

Page 1

Form: rprocess

## **Dart Aerospace Ltd**

W/O:				WORK ORDER	CHANGES					
DATE	STEP		PR	OCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						Ş				
			÷							
Part No	):		PAR #:	Fault Category:	NCI	R: Yes	No DO	QA:	Date: _	
	R	esolution:		Disposition:	QA	N/C	Closed: _		Date: _	
		I		MODE ODDED NON-COM	IEORMANCE	: (NIC	R)			

NCR:		`	WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B			Annyoval	Ammuousi			
DATE	STEP	Section A	Initial Chief Eng	Action Description  Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector			
					} }						
						,					
						,					
			1 1		1			1			

NOTE: Date & initial all entries

Thursday, 20/11/2008 3:34:16 PM Date: User: Julie Dawson **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: SEAT FRAME ASSEMBLY Job Number: 43600 Part Number: D3016041 Job Number: Seq. #: **Machine Or Operation:** Description: 5.0 D301613 Bracket Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) **Bracket** Pick: Qty Part Number Description **Batch** 2 D3016-13 Bracket 6.0 D301615 Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Gusset . Pick: Qty Description Part Number Batch B43413 2 D3016-15 Gusset 7.0 D30201 Fitting Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s) Fitting Pick: Qty Part Number Description D3020-1 Fitting 8.0 LARGE FABRICATION RESOURCE 1 LARGE FAB 1 Comment: LARGE FABRICATION RESOURCE 1 1-Cut all tubes as per Dwg D3016 2-Deburr 3-Assemble and weld as per Dwg D3016 using welding jig DT8597 A/R 4130 Rod Batch: 100075 4-Transfer drill holes from D3017-041 and D3021-041 in seat frame D3016-041 9.0 QC9 VISUAL WELDING INSPECTION Comment: VISUAL WELDING INSPECTION

Dart	<b>Aeros</b>	pace	Ltd
Duit	ACI 03	pacc	LLU

(218827

W/O: WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	y Date		Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: D3016-041 PAR #: NA Fault Category: Part Fred Fred Fred Ves No DQA: Date: 01/03/03

Resolution: Sci RP Disposition: Sci RP Date: 01/03/03

NCR: 4	3600	WORK ORDER NON-CONFORMANCE (NCR)										
DATE	STEP	Description of NC Section A	Initial Chief Eng	• • • • • • • • • • • • • • • • • • •			Approval Chief Eng	Approval QC Inspector				
91./20	\$ 80	Not believe typites in DT859 R.C. Lack of complet training and employee moves no	· · · · · · · · · · · · · · · · · · ·	<u> </u>	EZ 9-2-26	5 00/25	Bonno	محادرا				
		fast with out asluig		03016-9/11 12108538@ 75/8" 03016-5/7/7 milites1@ 25"	PL 9-2-85	02/0/25		्रीखीर				
				03016-1/3/3 M11105@	Q-1-20	Sololo5		Sorbelse				

NOTE: Date & initial all entries

Date: Thursday, 20/11/2008 3:34:16 PM User: Julie Dawson **Process Sheet** Drawing Name: SEAT FRAME ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Part Number: D3016041 Job Number: 43600 Job Number: Seq. #: **Machine Or Operation: Description:** INSPECT WORK TO CURRENT STEP 10.0 QC5 Comment: INSPECT WORK TO CURRENT STEP 11.0 POWDER COATING POWDER COATING M109648 Comment: POWDER COATING Install paint screws on fitting ends Powder Coat Grey sandtex (Ref. 4.3.5.6) as per QSI 005 8:30AM START TIME: 320°F OVEN TEMPERATURE: \_ 9:00 pm FINISH TIME: 09-07-26 12.0 QC3 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION 13.0 PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 6 14.0 QC21 Comment: FINAL IN PECTION/W/O RELEASE Job Completion

Dart /	Aeros	pace	Ltd
--------	-------	------	-----

	12										
W/O:			V	ORK ORDER CHANG	ES						
DATE	STEP	PRO	OCEDURE CH	ANGE	В	By Date			Approval Chief Eng / Prod Mgr	/ Approvai	
		<u> </u>								·	
Part No	:	PAR #:	Fault Ca	tegory:	_ NCR:	Yes N	lo <b>DQ</b> .	<b>A</b> :	Date:		
Resolution:		esolution:	Disposit	Disposition: (			QA: N/C Closed: Date				
NCR:		1	WORK OR	DER NON-CONFORMA	ANCE (I	NCR)					
DATE	STEP	Description of NC		Corrective Action Secti			Verific	cation	Approval	Approval	
DAIL	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng		ign & Date	Secti	ion C	Chief Eng	QC Inspector	
`,				7							
				٠							
				***************************************							
				,					:		

NOTE: Date & initial all entries





DES	iign (P	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CAI	
CHE	CKED ,	APPROVED	DRAWING NO.	REV. A
1	1	#	D3016	SHEET 1 OF 3
DAT	E		TITLE	SCALE
01	.05.18		SEAT FRAME ASSEMBLY	NTS
А		01.05.18	NEW ISSUE	

QTY	PART NUMBER	DESCRIPTION	MATERIAL
Х	D3016-041	SEAT FRAME ASSEMBLY	N/A
1	D3016-1	TUBE	AISI 4130N TUBE, Ø0.75 DIA x 0.049 WALL (M4130N-T0750W049)
2	D3016-3	TUBE	AISI 4130N TUBE, Ø0.75 DIA x 0.049 WALL (M4130N-T0750W049)
1	D3016-5	TUBE	AISI 4130N TUBE, Ø0.50 DIA x 0.049 WALL (M4130N-T0500W049)
2	D3016-7	TUBE	AISI 4130N TUBE, Ø0.50 DIA x 0.049 WALL (M4130N-T0500W049)
1	D3016-9	SADDLE	AISI 4130N TUBE, Ø1.00 DIA x 0.120 WALL (M4130N-T1000W120)
1	D3016-11	SADDLE	AISI 4130N TUBE, Ø1.00 DIA x 0.120 WALL (M4130N-T1000W120)
1	D3016-13	BRACKET	AISI 4130N SHEET, 18 GAUGE (M4130N-S049)
1	D3016-15	GUSSET	AISI 4130N SHEET, 18 GAUGE (M4130N-S049)
1	D3016-17	GUSSET	AISI 4130N SHEET, 18 GAUGE (M4130N-S049)
2	D3020-1	FITTING	N/A
l	1	1	

## **NOTES**

- 1) WELD PER DART QSI 004
- 2) ON SHEET METAL PARTS, BREAK ALL UNMARKED CORNERS 0.020-0.040
- 3) FINISH: POWDER COAT GREY SANDTEX (REF. 4.3.5.6) PER DART QSI 005 4.3
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE



## D3016-041 SEAT FRAME ASSEMBLY -D3016-11 SADDLE D3016-9 SADDLE 3.33 (REF) 5.13 5.13 6.65 4.50 D3016-1 TUBE (REF) (REF) 7.63 (REF) TRIM -15 TO CLEAR -13 AS SHOWN 1.06 ~ 0.03 D3016-17 105° **GUSSET** D3016-13 BRACKET $V_{(TYP)}$ 1.50 (REF) 1.53 (REF) D3016-3 -D3016-7 TUBE TUBE 5.63 1.24 SHOP COPY 4.20 RETURN TO ENGINEERING D3016-5 TUBE D3016-7\_ UNCONTROLLED COPY D3016-15 1.50 TUBE **GUSSET** SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER NO. 1 OCTO 0.30 D3020-1 FITTING (2 PLACES) 14.00 DART AEROSPACE LTD. HAWKESBURY, ONTARIO, CANADA DART COPYRIGHT @ 2001 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. CHECKED DRAWING NO. REV. A D3016 SHEET 2 OF 3 DATE TITLE SCALE 01.05.18 SEAT FRAME ASSEMBLY 1:3

